

CHAPTER X.

WHEREIN A SEA IS CROSSED, A SE-CRET IS DISCOVERED, AND TONTI RECEIVES A BLOW.

The lights were soon gone, but still the silent figure of La Salle remained on the poop. Pompon, seizing a rope, soon raised his head above the level of the rail. So wrapped in thought was La Salle that he took no notice of him until he had reached the deck Then startled at the sudden noiseless appearance of a human form so near him, he stepped back a pace, and, drawing his sword, demanded who it

"Save your sword-thrusts for your enemies; use them not on a friend," replied the figure.

"What! Pompon's voice!" exclaimed La Salle, as he selzed his hand in great delight. "Pompon's face!" he added. as he peered anxiously through the darkness. "Mon Dieu! I was thinking of you and Tonti but a moment ago. Where is he, for surely you are

"He is taking a last view of the shore-lights from his private balcony. Perhaps he has finished," was the reply; and leaning over the rail, Pompon gave a low whistle. In a moment Tonti had clambered up, and soon all three were engaged in an eager conversation.

"I had given you up for lost," said "All Paris was whispering La Salle. of your duel with the Conite de Miron and his death. But all was mystery. He had disappeared, his body no doubt secreted by his coachman; you, too, had disappeared, having fled to England, it was said; while Pompon, whom I searched for diligently, was nowhere to be found. The king was inclined to be vexed over your disobeying his order concerning duelling, but I think he was secretly pleased at getting rid of the Comte de Miron, whom he disliked. Only the influence of Colbert kept him about the court."

Thus did the partners in the firm of M. Tonti and Company hold their first meeting outside France, and the night was far spent before they finished recounting their adventures and laying plans for the future. No light was thrown upon the identity of their mysterious protector, and the matter was finally dismissed as a riddle to be solved at some later day.

There was plenty of time for the full discussion of their plans, for the La Salle. "Would that I had your "Saint Honore," although a stanch lit- gift of rhyming. I fear my sober montle craft of 150 tons, was driven from astic training destroyed any latent her course by contrary winds, and talent I might have had. If I could I drifted through many lazy days for would sing to you in return the charms lack of any. The passengers consisted of a party of soldiers sent to swell the Bourdon, all seeking homes and husin iron, for the need of building small explore the coasts had been empha-



LA SALLE REMAINED ON THE POOP.

sized by Frontenac in his letters to the king and Colbert; stone masons and builders to help the settlers erect their homes as well as build new forts; adventurers, escaped exiles, and political refugees, seeking under names to travel in the king's ship. and then lose themselves in the savage wilds. Among these were some 30 men whom La Salle had tempted by goodly sums and far goodlier promises of riches to be found in the New World, and tales of mystery and of untold wealth that only needed daring hearts and hands to secure it; some were honest artisans whom he needed in his explorations, especially to build ships on the lakes. For this purpose a store of iron, cordage, and anchors was carefully packed away in the hold.

La Salle and Tonti kept to themselves, but Pompon went about the ship making friends with every one in spite of his ugly face, busying himself in finding out everything he could from each person, amusing them, but telling nothing in return. He diced with the soldiers and adventurers, and spun yarns with the sailors derived from his experience in the galleys, but carefully disguised, he himself usually figuring as a brave officer in comand of one of his majesty's ships; the women folks he sedulously

The three spent many evenings in La Salle's quarters because they were much roomier than the rest, and over their wine they gradually revealed much of their past lives to each other, and grew in camaraderic, and the bonds of good fellowship were knit

A mass of rolling water encompasse m about. Each little wave laughed and sparkled beneath the sun's first kiss in the early morning; each little wave aned its white nightcap as the wind freshened after the sun went down; each little wave with its tiny strength urged on the ship. And so the sum-mer days were filled with light and the nights with the moon's sheen upon

reflection of the stars that guided the ship's course through the long ione

The gray twilight and the first half of the night were often spent in conversation by the three explorers on the poop just outside of hearing of the helmsman. Then it was that La Salle told of his early life: of the days spent among his Jesuit teachers; of the first voyage to the new land; of his carly efforts to penetrate the wilderness; of the life and history of the colony; of the rivalry between himself and the Jesuit missionaries and their followers for the fur-trade with the Indians and the efforts they made use of to thwart his plans. At times the genial side of his nature showed itself in the recital of amusing incidents of the court, at Quebec, in the camp.

Thus passed the days until full two months had gone and the summer winds had changed to September gales. Already the floating sea-weed and screaming birds told them that land was near. One night the three sat listening to the sound of wind and wave. Tonti was silent, while his companions talked. The master of the ship had been commissioned to bring over a lute for the Comte de Frontenac. was this lute that Tonti had borrowed, and, heedless now and then of the flagging conversation, he idly picked out some old forgotten strains upon the strings, his thoughts far distant.

At length Pompon left them. La Salle, after a few moments' silence,

"Mon Dieu! you are a man of accomplishments: mon ami: a soldier and a musician. It needs only that you become a poet and the three great arts will be found combined in one man."

Tonti smiled. "We once toasted your Lily of Poitou," he said. "Listen now, while I tell you of my Rose of Normandy. Perhaps if you will but forget the singer, you may be pleased like I am with the subject of my song." So saying, he played a few chords and began to sing to an old Italian air:

Whilst poets celebrate in rhyme Some comely maid of high degree, The praises rare I'd gladly sing Of Rose, my Rose, of Normandy.

The sunbeams nestle in her hair,

Sweet thoughts and pure possess her From earthly dross and blemish free;

Within the empire of her heart I fain would reign its king to be; But other hands I fear will pluck This Rose, my Ro

"Bravo! Monsieur Poet," applauded of my fair one."

A silence ensued, broken only available fighting force to be used the creaking of the ship's timbers, the against the Indians; a flock of 30 girls shrilling of the wind through the rigtraveling under the care of Madame ging, and the sound of rushing waters as the vessel careened on her course. bands in the new strange lands across. A falling star shot its tiny spark across the sea; ship-carpenters and workers the heavens; the muffled sound of human voices came up from the interior ships to trade with the Indians and of the "Saint Honore;" the ship's bell announced the arrival of midnight.

At length Tonti aroused himself from his revery and spoke to his friend, who in turn was unconscious of his surroundings, so great was the power of thought over his physical environment.

"Do you recollect our first meeting. mon capitaine, how you promised to tell me the name of your lady when we had once left the land behind us? Perhaps although your rhymes be faulty, one could learn something of

"True, mon ami, but words, even

her from your prose."

though they be not those of poesy, would utterly fail to describe the person of her who has entered my life but recently, but whose angelic presence I trust shall remain with me forever. But I shall spare you all rhapsodies. She whom I call my Lily of Poitou is a daughter of a noble of that province; her name, Renee d'Outrelaise. She lives with mademoiselle as a companion and friend. So far she has not been seen at court, but keeps close to her protectress, and is visible only to those honored few to whom mademoiselle chooses to show her: for all of which I am thankful. The princess as a patroness of the arts and literature has been pleased to interest herself in my explorations and has invited me on a number of occasions to rehearse to her my adventures in New France and relate all that would interest her about the land and its inhabitants. Mile. d'Outrelaise has been present at most of our interviews, and it was while thus engaged that I realized that a new strange feeling had arisen within my heart, a feeling that men lightly call love, but which I recognize as an inspiring, ennobling influence that means much more to me.

La Salle, not noticing his compan-

ion's silence, continued: "Mademoiselle has known by reputetion some of my relatives and connections and thinks highly of me as well as my projects, and I know approves my suit. Renee has never shown aught in her demeanor that betokened a return of my affection, nor have I ever spoken words of love to her, partly from my lack of courage and partly from the fact that I have seen her alone but once. I feel safe in her retired life, believing mademoiselle to be my ally; besides, she is young yet. If I but accomplish what I hope to do, I can return in two or three years with honor, power, and wealth and claim er for my own. She will be guided largely in her choice of a husband by princess' counsel and wishes. saw her the day I left Paris, and our parting interview augered well for my

"How so?" asked Tonti in a hard strained voice

"I detected evidences of long weeping in her eyes; she was agitated beyond measure, and expressed the warmest wishes for the safety and success of my expedition; and hest of all, after I had kissed the hand of madparting remembrance a silken flag of ner, spangled with fleurs-de-lis, waved France worked by her own fair fin-official welcome to the king's ship, gers."

The approach of Pompon cut short any further speech from La Salle and permitted Tonti to withdraw to another portion of the ship, a prey to the deepest emotion. As he stood by the rail and looked across the tumbling, surging mass of waters which s rising storm had quickened, he felt in full sympathy with its tempestuou nature. And when the rain fell and the wind became a gale and the vessel bobbed about on the water, he still retained his post, oblivious of the outer tempest, engulfed as was his spirit amid the waves of jealous alarm, un-

happiness, and despair. Here was a blight upon his new formed hopes; the man whom he had promised to serve as companion and friend, the one to whom he warmed as never to mortal man, was now as unconscious rival. In the first onrush of the tempest that stirred his pas sionate nature he hated him, and cursed the day they first met. Were not the glory and honor and riches that were just ahead on the explorer's path sufficient but that he must take his love, she whom he realized was all in all to him, too? And the melody of the song he had swng with its closing words, words written in a moment of joy and hope, that were in reality full of pathetic foreboding, passed through his mind again:

But other hands I fear will pluck

But when the tide of feeling had reached its full, then came the calm before the ebb. The soldler's sense of justice showed him clearly that his friend was innocent of any desire to work him harm. That he really was the interloper, for La Salle had known her for weeks and months, while his acquaintance was but that of a day, And the strong feeling of remaining stanchly loyal to his commander, even though it meant to take sides against himself, came to his rescue. Then, too, the careful recollection of the two short glimpses he had of the fair lady showed him but too plainly that he had small grounds of hope on which to build.

On into the early morning watches he struggled with himself. The love of a man for a woman battled strong with a man's love for honor and that which he deemed the right. And lo a paradox appeared, for in the strife although honor won, yet in no wise was his love for the woman conquered or belittled by the strife, but rather was

enlarged, illumined, and made stronger still, for he could at once give full allegiance to his love and yet resolve that come what might he would in no wise be false to his friend; that he could glorify and worship the one and keep this secret hid from the other; could aid his companion with all his strength and leave the future to le bon Dieu, who controls every man's destiny. The battle once won he could look forward with the hope that by being true to both now, his reward would somehow be forthcoming when the work was done. And as the first morning rays touched the ship's deck they fell upon the figure of a man, not worn out and fatigued by a night's struggle and exposure, but firm and erect, gazing toward the new land but one day's journey distant, with the light of faith and hope and love in his countenance; and the greatest of these was love.

That night three goblets were filled to the brim and emptied and filled Three manly breasts responded to the thrill of a common lot, a common joy, a common purpose. Three hands clasped fealty with hands that gripped them fast. They pledged the king, the ship, New France, the ex-

"To three gallant comrades" cried La Salle when the last bumper was raised, "who will to each other be

"And faithful," added Tonti, in voice vibrating with deep feeling. "Even unto death," said Pompo gravely.

Thus ran the toest; so drank they

CHAPTER XL

WHEREIN ARE MET A NEW WORLD, a social sin. AN ALLY IN HIGH PLACES, AND A

TEMPEST IN A TEAPOT. A dull, dark day; an unfriendly wind, necessitating frequent tacking of the ship; the lowering of clouds that now and then swept down upon them enveloping everything in mist; the cry of water-fowl unseen; the sharp scared glance of gulls that suddenly appeared from out the fog, only to veer abruptly away and be swallowed up again; and then the uplift of the hazy curtain, and the sight of a dim low line of coast with shadowy suggestion of vast mountain ranges on the horizon's rim; -this was their welcome to New France. As yet no indication appeared to show them they had left the ocean and were ascending the mighty stream that drained a continent. But finally, when on the near approach to the northern shore a glimpse was caught of the tradingstation at Tadoussac, the weary passengers first realized that their journey was nigh ended. All crowded to the rail and strained their eyes to feast them on the land of their dreams, the harbor of their hopes. The three comrades stood beside the captain as they watched the sun's first rays light up the beetling rocks of Mal bay. All day the glad sunlight and the clear breeze dried the ship's sails and warmed the hearts of all on board as a panorama of hitherto unknown beauty. painted by the hand of nature, was

slowly unrolled before their wondering eyes. At length, after passing through the northern channel between the island of Orleans, edged with houses and clearings and the mainland shores of Beaupre and Beauport, the good ship glided into the quiet bay, while the towering heights of Quebec, pulssant stronghold of a new country, the comely mistress of all this fair land, the goal of the entire company, smile grimly down upon them. The promon tory, crowned with fort, churches seminary, and convent, looked indeed the mighty, silent bulwark that it was. Soon was the silence broken, for as the vessel let go her anchor and fired her salute, a puff of smoke came from the fort and the long, deep boom of cannon sounded clear in the early auemoiselle in adieu, she permitted me tumn air, while from the flagstaff on the same privilege, and gave me as a the Chateau St. Louis a white ban-

CROCHET PETTICOAT.

We Give Below Full Directions for Making This Practical and Pretty Gift for a Child.

About three ounces of wool, and a long wooden hook about the size of a No. 8 knitting needle, and a short book of about the same size, and one yard ing the teeth through; and the teeth of narrow ribbon.

Work 60 chain. First six rows plain tricot.

the rest of the row as usual. Eighth to thirty-sixth rows: Same lengin as seventh.

Seventh row: Work off the first ten

Thirty-seventh row: Before commen

this will bring the stitches to the original number (60).

Work six rows of this length. Work off 20 stitches like double crochet, and the rest of the row as usual. Another row same length as last. Nineteen chain and repeat from the first row, ending with the short row. Work off all the stitches, place the two with single crochet, leaving the open-



A WARM PETTICOAT.

one. Join the two shoulder pieces in the same way (on the wrong side). A double crochet under both threads of one of the stitches at the lower edge of the petticoat,* pass two, five trebles with a chain between each under the next, pass two, a double cro-

chet under the next, and repeat from *. Second 'ow: *, five trebles with a chain between each under both threads of the double crochet in the previous row, a double crochet on the middle stitch of the group of trebles, and re-

peat from * all round. Five more rows like the last. Eight row: Three chain into every other stitch all a round.

Ninth row: Three chain into the middle of each chain loop. Tenth row: *, five chain back into the first (picot), a double crochet in

in the previous row. Repeat from all round. Two trebles, with one chain between under one stitch (both threads), . pass one, two trebles with a chain between under the next and repeat from a'l round, and on this row work a

row of picots like those on the lower Round the armholes work a row of three chain loops, and then a row of picots like the top.

Cut the ribbon in two and thread front and back, leaving the ends to tle on each shoulder.

"BEAUTY DON'TS."

Don't have aches and pains when you can keep well. Remember that carelessness makes more invalids than

hard work. Don't overdress, but try to suit your dress to your style, and remember that dress makes or mars the woman.

Don't be sloppy in your style, and don't wear clothes that are shabby. Remember that a rundown heel spoils any foot and that a bad skirt braid is

Don't wear a big hat if you are a lit tle woman; don't try to dress out of proportion to your stature. Don't imagine that you are prettier

han you are. Don't walk too rapidly, for it de

stroys grace. Don't hurry and don't worry

Don't, if you are a woman with a sad ace, try to look still sadder; chirk up; smile; make your mouth into a Cupid's bow; force yourself to look animated; try to be expressive with your eyes; a sad, wan face never won out in a beauty contest.

Don't, if you want to be an attractive woman talk too much. Cultivate the habit of silence. It is the prettiest habit a woman ever had.

Don't gush, and don't try to be effusive. Learn the pretty, even tone which is liked in society and talk low. This doesn't mean to whisper. But it means to speak so that you can be

A Tight Shoe.

The foot may be very prettily and stylishly shod, but its owner is in too much torture to handle her feet grace fully. The dainty boot, moving here, moving there, now lifted, now lowered, now tucked under its mate, now fret fully resting on top, but serves to call attention to the awkwardness of these painful movements, and causes the visitor to innocently wonder what the trouble is; thinking that possibly she has some fearful nervous trouble which affects the feet and legs in particular, country, and in some large towns there or that the "shoe pinches." Most often this last conclusion is the correct one, yet the woman in question will never 'own up," as the children say,

Swift of Wing. The momentum of a swiftly flying bird is considerable. A partridge flew against a window of the gymnasium of Williams college the other day, crashing through the glass and falling to the floor dead. The force of the blow may be judged from the fact that the glass was "triple-thick" and not more than 20x12 in size.

od for the Gums. Get your druggist to fill a half-ounce with equal parts of tincture of myrrh and alcohol, and apply this to while cooling; strain and bottle. the gums and tighten the teeth.

CHILD'S FIRST TEETH.

Of Utmost Importance That They Are Carefully Looked After-Dentist's Aid Is Often Required.

Letting baby suck and chew on a stale crust or a stale piece of corn pone will do a great deal to assist in bring that have arrived will also be benefited by this very simple means. In stale bread all of the gas which might cre ate disturbance in the little stomach stitches like double crochet, then work has evaporated, the starch granules have ripened and burst, and the bread itself is in the best condition to be digested and absorbed into the system.

Just a little lime water in the milk cing the next row make nine chain; will often aid in establishing good teeth, and where the little princess first teeth have not been especially good, either as to color, shape or arrangement, the matter can readily be corrected by careful attention, first to the cleanliness of the mouth and teeth. and next by diet.

Upon the care of the first teeth will depend the quality and the beauty of sides of the work together, and join the second or permanent set. Only too often do even the wisest of mothers imagine that the first teeth do not require dentists' care, arguing that as they are but temporary it were money thrown away to see to their filling and the like

If the first set be in any way irregu lar or faulty the detect must be corrected immediately, for "as the twig is bent, so is the tree inclined;" and as the first teeth are faulty or perfect so will the teeth that the little beauty carry with her through life be affected.

The habit of letting the baby suck its thumb or its fist is a fruitful source of irregularities of the gums and teeth. It is bad enough when only the thumb is constantly sucked; but when the whole of the little fist is thrust into the tiny mouth the gums are drawn out of shape and the teeth grow outward in a painfully projecting fashion.

The use of those so-called pacifiers, too, is another source of dental troubles, and this scribe would joyfully see their manufacture and sale prohibited by act of legislature. They are seldom or never properly cleansed, the rubber of which they are made is porous and absorbs all sorts of germs and bacteria, and their use is almost invariably attended by sore mouth, bad breath and digestive and intestinal

When the little girl has reached, say, two years old, she may be taught to use her little toothbrush herself under due supervision, of course. Small brushes now come especially for the little folk, the edges of the bristles carefully serrated so that they penstrate into the interstices between the teeth and remove every particle of detritus that may lodge there

Little miladi must be taught to use her small brush after each meal, before the middle stitch of the nearest loop going to bed at night and the first thing on rising in the morning. She must learn to rinse the mouth thorougaly and often, and she must be taught to gargle, too, for the faucial tonsils are often traps for the catching and holding of unmasticated particles of food, and this gives rise to an un pleasant odor on the breath.

HANDSOME HANDMADE LACE Pattern Here Given Very Good One-Piece of Lace May Be Used

Variously.

The design given here will serve for various purposes. Four joined to- that \$700,000,000 that Master Jones told Don't have outstanding ears when gether to form a square will make a you can wear an ear namess at night. pretty dolly; repeated cornerwise it will make a handsome border for a tablecloth, the upper part to be fixed on the material by buttonholing the



POINT LACE

braid. In this case the majerial lying under the lace would be carefully cut away. Our pattern will also make a very pretty end for a silk or muslin Linen braid and thread No. 50 are used.

Materials required for one pattern: One and one-half yards braid, one

Marvelous Rapidity.

During recent experiments to discover the length of time required for a telegraph signal to pass from Montreal to Greenwich by Atlantic cable, 200 signals were sent. It was found that the average time taken by the current to cross the Atlantic and back-a distance in all of 8,000 miles-was exactly 1 1-20 seconds.

Canadian Postal Business. The Canadian post office department shows a surplus on its operations for the last fiscal year, but the service is much less complete than it is in the United States. Rural free delivery has not been carried as far as in are no Sunday collections or deliveries of mail.

It is the time of quaint effects in fabrics, as well as cut in evening dresses-and dresses are seen of moire thick and braidlike and also of white panne. A gown of ivory panne had trimmings of gold lace and cream lace, with a piping of mahogany velvet, and buttons of red enamel and gold.

Quaint Evening Dress.

A Simple Skin Bleach.

A good bleach for the skin is made by infusing two tablespoonfuls of finely grated horseradish in one pint of scald ing sweet milk, stirring frequently the gums three times a day on going a little of this on the face several times to bed at night. This is claimed to heal a day with a soft coth, letting dry on

PLUNDERING THE FARMERS

Trusts and Protected Interests Appropriated \$700,000,000 More Than Just Share.

There were about 13,000,000 votes east for candidates for congress at the the last election and as there are in the United States more than 5,500,000 farmers and 4,500,000 agricultural laborers, besides stockraisers and herders, dairyman and market gardeners, more than half of the voters must have been obtaining their living through agriculture. Yet this important class of voters, upon whose efforts and products the whole country depends, have not a single republican representative in congress. There are some few republican members who may call themselves farmers, but their votes show they legislate to farm the farmers in-

stead of the soil. The republicans are boasting of the large crops raised this year, implously been spread over the adjoining counindicating they are backed by Providence in securing the bounties of nature. The worthy master of the National Grange, Aaron Jones, of Indiana, in his annual report last year told the ery year, because overgrown by weeds. members of that organization that the trusts and corporations pluncered the above the rightful dues for profits and transportation.

Has the Grange, or any other organization of farmers, done anything to relieve their members from that enormous drain on their resources? It would seem not. The trusts have multiplied and the railroads are extorting unreasonable rates and the republican representatives in congress have not passed a single law that has accomplished any relief from the plundering corporations.

The democrats in congress introduced bills to control trusts and to revise the tariff, which alone plunders the farmers of a large proportion of the enormous sum that the master of the Grange stated, but the republicans who controlled the last congress refused to even consider the bills. Simby Mr. Williams, the democratic leader in this congress, but they will not be considered.

The republican leaders have determined to stand pat and the balance of the republican members, like a flock of sheep following the bell-weather. vote against remedial legislation.

As the farmers are not protected by the tariff except a few sugar and beet growers and a very small number of tobacco raisers in Connecticut who produce "wrapper" tobacco, they are intariff gives the trusts, so that what the | quired. farmer buys will be reasonable in price and the greater part of the above mentioned \$700,000,000 saved to them. Yet the farmers elect representatives

erm after term in some districts who with railroad passes in their pockets and trust boodle behind them, misrenresent the great agricultural interests. How can these republican representatives vote for remedial legislation when they rely on the corporations for succor and in return are bound to do the bidding of the corporation lobby-The republican Ist. bosses smile and the trusts and protected interests laugh and grow fat at the way they fool the republican farmers. But the signs of the times point to an awakening and the late elections are an indication of what is to follow. Even the long-suffering farmers are beginning to see that good crops may not last forever and that it is time to provide for the learn years that are certain to come in the near future and pockets of the farmers instead of being

ROOSEVELT BEING TAMED.

annually added to the millions in the

vaults of the corporations.

Tainted Campaign Fund Has Disastrous Effect on Roosevelt's Reform Ideas.

The reported capture of President Roosevelt by the stand-patters has been verified by himself, for he recommends no revision of the tariff in his message to congress. Perhaps the president felt compelled to be silent because of the promises made by the officials of the republican committee to the life insurance magnates and others that if they would subscribe to the campaign fund the tariff would not be meddled with. That the money from the life insurance companies must have tainted the white house atmosphere and acted as a soporific on "the national trust buster" is probable or tariff reform would have been urged for the tariff is the mother of trusts, according to a good republican au-

There is also other evidence that disastrous effect on the president's reform ideas, for he makes but feeble reference to political corruption. But there, again, the president found his hands tied, for to denounce political corruption would be to accuse so many of the leaders of the republican party that it would add to its present de moralization.

The president, when free to express his real feelings, is as bold as a lion against corruption and grafting, but with the taming process that Speaker Cannon and the other stand-pat leaders have been putting him through he is as harmless as a sucking dove on the subjects that pinch their corns. It is to be hoped that the president has not really surrendered to the standpatters and qualled before the exposure of the rottenness of his party, but the tainted atmosphere of the white house has certainly not been cleared by the recommendations in the message. The president would find the whole country behind him, except the special interests protected, if he would send in to congress a ringing message for tariff reform and recommend that strengous measure be passed to stem corruption. In this, as with other democratic reforms he may adopt, he would have the hearty cooperation of the democrats.

-Who will guard and pay for probere is no McCurdy to hand \$50,000 hecks to the republican national committee and produce "the dough" for Mr. Babcock and his republican congression I aggregation?



FIX UP THE ROADSIDES.

How Farmers in Minnesota Utilize the Otherwise Waste Land in Crop Growing.

The law of Minnesota calls for a public highway four rods wide and it has been the general practice to leave the full four rods uncultivated. In most cases this space has been overgrown with weeds only, that were not even cut down once a year. In this way many of the most obnoxious weeds have filled the adjoining fields and try by sticking to the wagon wheels whenever the roads were wet. This has not been the only trouble-there were thousands of acres lying idle ev-But Lewis Olsen writes to the Farm and Home that a gradual change for farmers of over \$700,000,000 over and the better is being worked out by the rapidly growing tendency among farmers to utilize all waste land along the roadsides by cultivation and growing grain or grass up to the very road track actually in daily use. As the law



TWO METHODS OF WORKING A ROADSIDE.

allows the cultivation of all the land not in actual use for the road, it has by experience been found that roads are improved by having all the land, insluding the shallow ditches on the sides, plowed and cultivated. The accompanying sketch shows a public highway where one side of it was left without cultivation or care for years flar bills have already been introduced and all is overgrown with coarse weeds; while on the other side, even the ditch is carefully plowed and cultivated with a good stand of wheat, growing up to the wheel track. Of course the farmer could not collect any damages if the grain thus grown on the right of pubtic highway should be destroyed, but there is an unwritten law which all will respect, that no one will wantoniy destroy any of the grain so grown. Where this practice is continued for a number of years, the roadbed will be gradually raised until it becomes high terested in reducing the protection the and dry and little or no grading is re-

APPLE TREES AND RABBITS

Necessity of Protecting the Young Trees from the Gnawing of the Animals,

When rabbits run in the orchard, as is not safe to let young apple trees go through the winter without protection. declares the Farmers' Review. As other food becomes scarce the rabbits are almost sure to bark the young trees, especially when there is snow on the ground. I have seen various preventives recommended, and, among them, rubbing the trees with soap. I tried this last winter and lost some of my best trees-not by rabbits, but by the preventive, soap. It killed the bark and the trees gradually died during the summer. The best thing I have tried as a protection is wrapping the tree with common newspapers, folded to three or four thicknesses and tied on with twine or the ravelings of a tow Expert hands can make the application very rapidly and it seems to be perfectly successful. If you could be sure of killing all the rabbits that

GRAVEL OR HARD ROADS.

would be another good plan.

Too Expensive in Some Localities-Not Necessary If King Drag Is Used.

Something like a year ago there was quite an excitement in our county on the road question. The farmers of Knox county, Illinois, writes the correspondent of the Farmers' Review, want good roads, but gravel or hard roads are out of the question. We have no gravel or rock, and to ship stone would break up all the small farmers in the country. Our soil is such that if the roads are graded properly we will have good roads nine or ten months in the year. There are places in the United States where such roads can be built. Even oiled roads may be built in some places. But in this part of Illinois the frost goes so deep that the expense would take the big end of little farms to pave the roads it contains. [The use of the King this tainted campaign fund has had a drag has shown how the difficulties mentioned may be overcome and a good road obtained.-Ed.1

A HOT DINNER.

Arrangement for Retaining the Heat of Food and Drink on the Coldest Days.

To keep your dinner hot in cold weather, while working away from home, have a box just large enough to hold the dinner box and coffee can. Make a tight cover, put some hay in the bottom of box, then a larg hot soapstone. Set

your dinner box and coffee can on that, pack hay in the corners and lay two or three thicknesses of cloth on top. This, declares Farm and Home, will keep your dinner warm in the coldest weather,

A WORD TO THE WISE.

Give the hen meat. A scent (tainted) spoils the face of

Of course the hotbed soil has been made ready.

New land or sod land should be plowed at the first opportunity.

The farmer who uses the poores part of his place for pasture is likely to lose by it.

You can raise the frame of a calf without milk, but not the picture of a good animal.